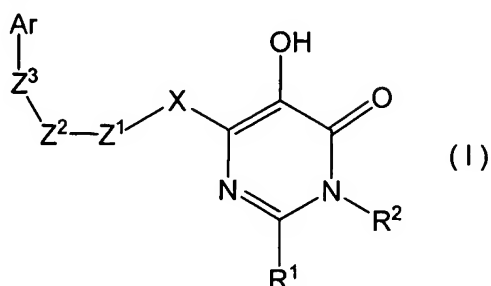


Amendments to the Claims

1. (Currently amended) A compound of the formula:

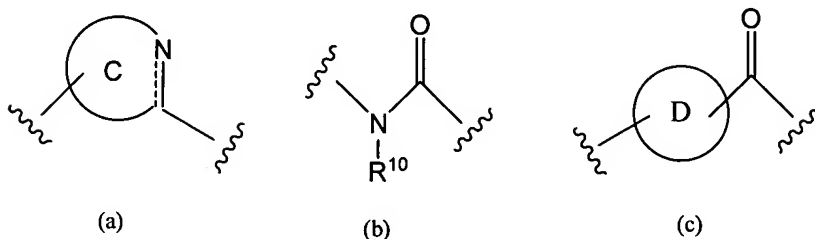
[Formula 1]



(wherein:

X represents either one of the following groups:

[Formula 2]



(wherein, C ring is nitrogen-containing aromatic heterocyclic ring in which at least one of atoms neighboring the atom bound to the pyrimidine ring is unsubstituted nitrogen atom;

R¹⁰ is hydrogen or lower alkyl; D ring is aryl or heteroaryl)

Z¹ and Z³ each is independently a single bond, O, S, S (=O) or SO₂;

Z² is a single bond, lower alkylene or lower alkenylene;

Ar is optionally substituted aryl or optionally substituted heteroaryl;

R¹ is lower alkyl, substituted lower alkyl, optionally substituted cycloalkyl, optionally substituted cycloalkyl lower alkyl, optionally substituted aryl, optionally substituted aralkyl, optionally substituted heterocyclic group, or optionally substituted heterocyclic lower alkyl;

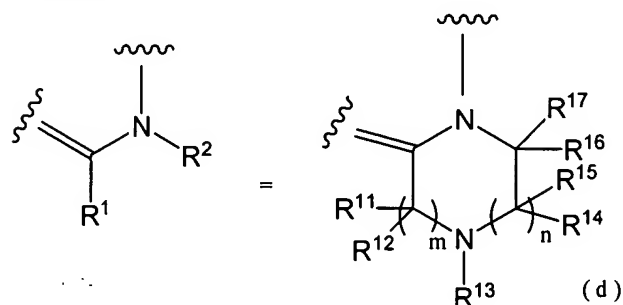
R² is a hydrogen atom or optionally substituted lower alkyl; or

R¹ and R² may form, together with an adjacent atom, an optionally substituted heterocyclic ring,

provided that

- 1) when X is a group shown by (a), R¹ is not lower alkyl
- 2) when X is a group shown by (b), R¹ and R² form, together with an adjacent atom, a heterocyclic ring shown by the (d) as follows:

[Formula 3]



(wherein, R¹¹, R¹², R¹⁴, R¹⁵, R¹⁶, and R¹⁷ each is independently hydrogen, optionally substituted lower alkyl, optionally substituted aryl, optionally substituted heteroaryl, optionally substituted amino, optionally substituted hydroxy, optionally substituted thiol, optionally substituted sulfonyl, optionally substituted aminosulfonyl, or optionally substituted carbamoyl, or

R¹¹ and R¹², R¹⁴ and R¹⁵, and R¹⁶ and R¹⁷ may together form “=O”;

R¹³ is hydrogen, optionally substituted lower alkyl, optionally substituted lower alkylcarbonyl, optionally substituted lower alkylsulfonyl, optionally substituted carbamoyl, optionally substituted arylcarbonyl, optionally substituted aralkyl, optionally substituted heteroaralkyl, or optionally substituted heteroarylcarbonyl;

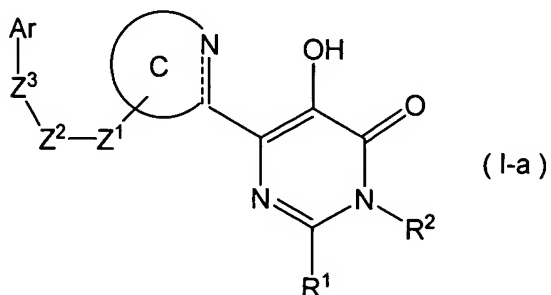
m is 0, 1, 2 or 3; n is 0, 1, 2 or 3; provided that $1 \leq m+n \leq 3$), a pharmaceutically acceptable salt or a solvate thereof.

2. (Original) The compound according to claim 1, wherein Z¹ is a single bond or O; Z² is a single bond or lower alkylene; Z³ is a single bond; and Ar is optionally substituted phenyl, a pharmaceutically acceptable salt or a solvate thereof.

3. (Original) The compound according to claim 2, wherein $-Z^1-Z^2-Z^3-Ar$ is 4-fluorobenzyl, a pharmaceutically acceptable salt or a solvate thereof.

4. (Original) The compound according to claim 1 represented by the formula:

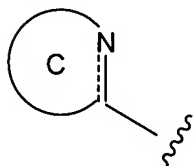
[Formula 4]



(wherein each symbol has the same meanings as claim 1), a pharmaceutically acceptable salt or a solvate thereof.

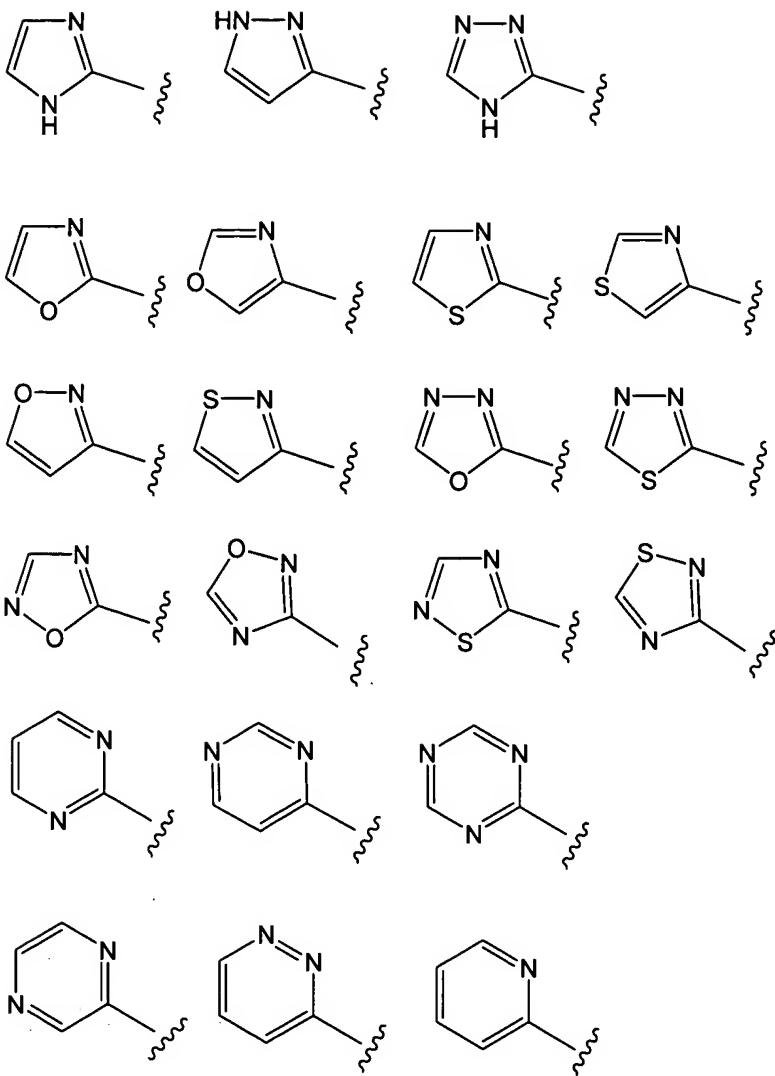
5. (Original) The compound according to claim 4, wherein C ring represented by the formula:

[Formula 5]



is selected from the group consisting of:

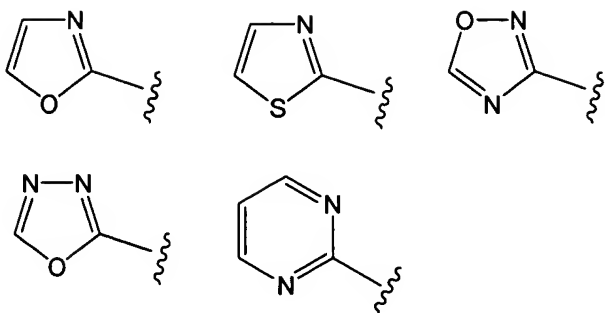
[Formula 6]



, a pharmaceutically acceptable salt or a solvate thereof.

6. (Original) The compound according to claim 5, wherein C ring is selected from the group consisting of:

[Formula 7]

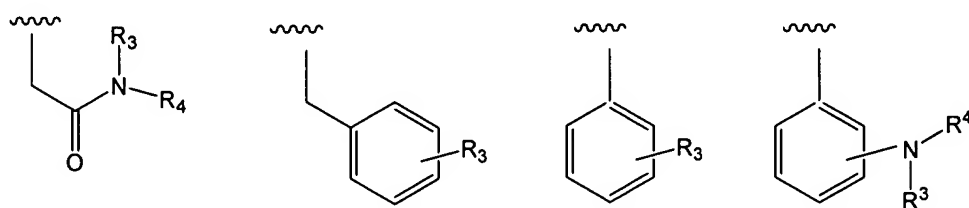
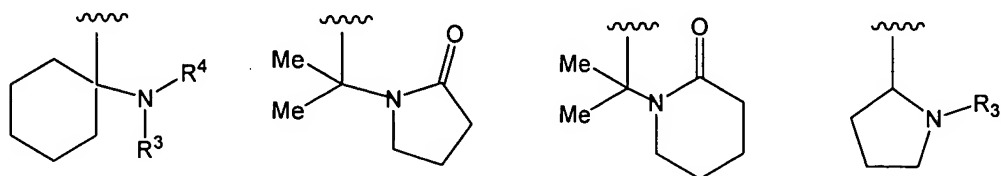
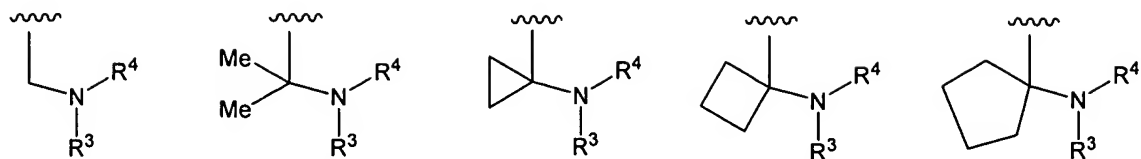


, a pharmaceutically acceptable salt or a solvate thereof.

7. (Original) The compound according to claim 1, wherein R^1 is substituted lower alkyl, optionally substituted cycloalkyl, optionally substituted aralkyl, optionally substituted heterocyclic lower alkyl, optionally substituted aryl or optionally substituted heterocyclic group, and each substituent is selected from the group consisting of $-NR^3R^4$, $-C(=O)R^3$, $-C(=O)NR^3R^4$ (wherein, R^3 and R^4 each is independently, hydrogen atom, hydroxy, alkoxy, optionally substituted aryloxy, optionally substituted aralkyloxy, optionally substituted amino, optionally substituted alkyl, optionally substituted cycloalkyl, optionally substituted aryl, optionally substituted heterocyclic group, optionally substituted aralkyl, optionally substituted heteroaralkyl, optionally substituted lower alkylcarbonyl, optionally substituted arylcarbonyl, optionally substituted heteroarylcarbonyl, optionally substituted carbamoyl, optionally substituted carbamoylcarbonyl, lower alkoxy carbonylcarbonyl, carboxycarbonyl, lower alkoxy carbonyl, optionally substituted heterocyclic carbonyl, lower alkylsulfonyl, optionally substituted arylsulfonyl, optionally substituted heteroarylsulfonyl, or optionally substituted lower alkylsulfonyl), oxo and halogen, a pharmaceutically acceptable salt or a solvate thereof.

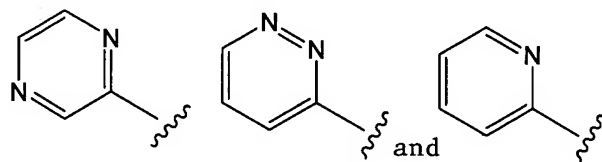
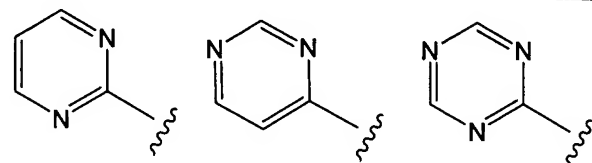
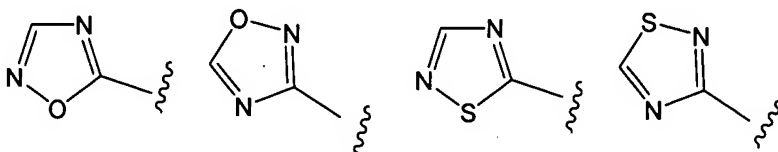
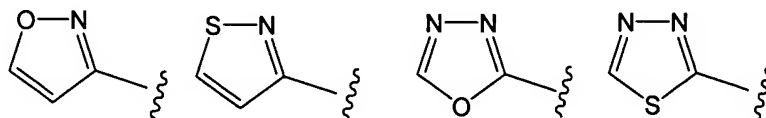
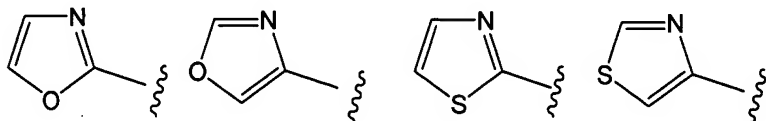
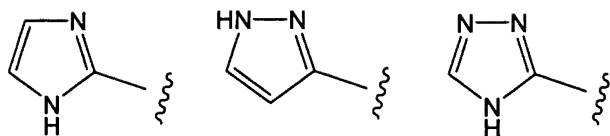
8. (Currently amended) The compound according to claim 1, wherein R^1 is a group selected from the group consisting of:

[Formula 8]



(wherein, R^3 and R^4 are the same meanings as above)
 , a pharmaceutically acceptable salt or a solvate thereof.

9. (Currently amended) The compound according to claim 1, wherein Z^1 is a single bond or O; Z^2 is a single bond or lower alkylene; Z^3 is a single bond; Ar is optionally substituted phenyl; X is a group represented by (a); C ring is a group as recited in claim 5 or 6 selected from the group consisting of:

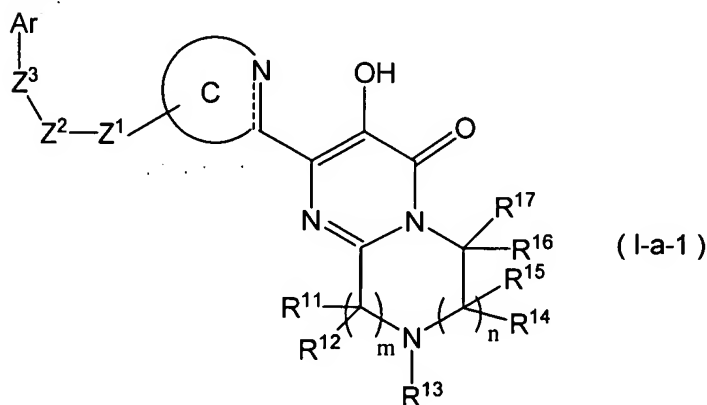


; and R^1 is a group as recited in claim 7 or 8 substituted lower alkyl, optionally substituted cycloalkyl, optionally substituted aralkyl, optionally substituted heterocyclic lower alkyl, optionally substituted aryl or optionally substituted heterocyclic group, and each substituent is selected from the group consisting of $-NR^3R^4$, $-C(=O)R^3$, $-C(=O)NR^3R^4$ (wherein, R^3 and R^4 each is independently, hydrogen atom, hydroxy, alkoxy, optionally substituted aryloxy, optionally substituted aralkyloxy, optionally substituted amino, optionally substituted alkyl, optionally substituted cycloalkyl, optionally substituted aryl, optionally substituted heterocyclic group, optionally substituted aralkyl, optionally substituted heteroaralkyl, optionally substituted lower alkylcarbonyl, optionally substituted arylcarbonyl, optionally substituted heteroarylcarbonyl, optionally

substituted carbamoyl, optionally substituted carbamoylcarbonyl, lower alkoxy carbonylcarbonyl, carboxycarbonyl, lower alkoxy carbonyl, optionally substituted heterocyclic carbonyl, lower alkylsulfonyl, optionally substituted arylsulfonyl, optionally substituted heteroarylsulfonyl, or optionally substituted lower alkylsulfonyl), oxo and halogen, a pharmaceutically acceptable salt or a solvate thereof.

10. (Original) The compound according to claim 4, wherein X is a group represented by (a); R¹ and R² form, together with an adjacent atom, an optionally substituted heterocyclic ring, a pharmaceutically acceptable salt or a solvate thereof.

11. (Currently amended) The compound according to claim 4 of the formula:
[Formula 9]



(wherein each symbol is the same meanings as claim 1) (wherein, C ring is nitrogen-containing aromatic heterocyclic ring in which at least one of atoms neighboring the atom bound to the pyrimidine ring is unsubstituted nitrogen atom;

Z¹ and Z³ each is independently a single bond, O, S, S (=O) or SO₂;

Z² is a single bond, lower alkylene or lower alkenylene;

Ar is optionally substituted aryl or optionally substituted heteroaryl;

R¹¹, R¹², R¹⁴, R¹⁵, R¹⁶, and R¹⁷ each is independently hydrogen, optionally substituted lower alkyl, optionally substituted aryl, optionally substituted heteroaryl, optionally substituted amino, optionally substituted hydroxy, optionally substituted thiol, optionally substituted sulfonyl, optionally substituted aminosulfonyl, or optionally substituted carbamoyl, or

R¹¹ and R¹², R¹⁴ and R¹⁵, and R¹⁶ and R¹⁷ may together form “=O”;

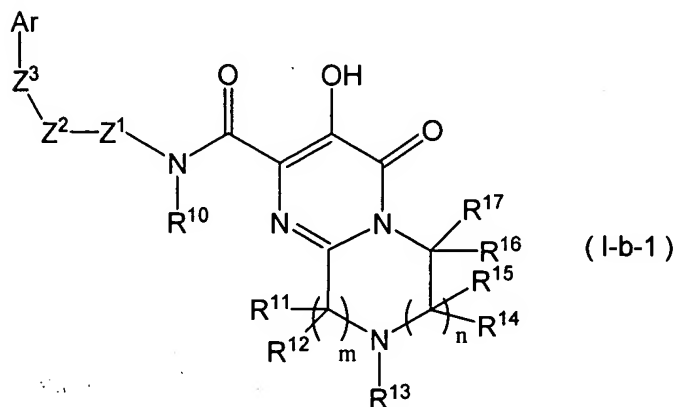
R¹³ is hydrogen, optionally substituted lower alkyl, optionally substituted lower alkylcarbonyl, optionally substituted lower alkylsulfonyl, optionally substituted carbamoyl, optionally substituted arylcarbonyl, optionally substituted aralkyl, optionally substituted heteroaralkyl, or optionally substituted heteroarylcarbonyl;

m is 0, 1, 2 or 3; n is 0, 1, 2 or 3; provided that ~~1=m+n=3~~ 1 ≤ m+n ≤ 3),

a pharmaceutically acceptable salt or a solvate thereof.

12. (Original) The compound according to claim 1 of the formula:

[Formula 10]



(wherein each symbol is the same meanings as claim 1)

, a pharmaceutically acceptable salt or a solvate thereof.

13. (Currently amended) The compound according to claim 11-~~or 12~~, wherein Z¹ is a single bond or O; Z² is a single bond or lower alkylene; Z³ is a single bond; and Ar is optionally substituted phenyl, a pharmaceutically acceptable salt or a solvate thereof.

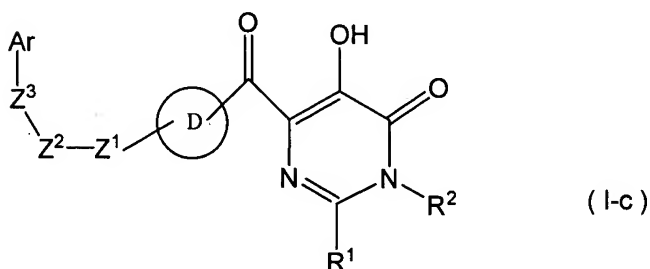
14. (Currently amended) The compound according to claim 11-~~or 12~~, wherein m is 1, and n is 0 or 1, a pharmaceutically acceptable salt or a solvate thereof.

15. (Currently amended) The compound according to claim 11-~~or 12~~, wherein R¹¹ and R¹² each is independently hydrogen or lower alkyl; R¹⁴ and R¹⁵ both are hydrogens,

or together form “=O”; and R¹⁶ and R¹⁷ each is independently hydrogen or lower alkyl, a pharmaceutically acceptable salt or a solvate thereof.

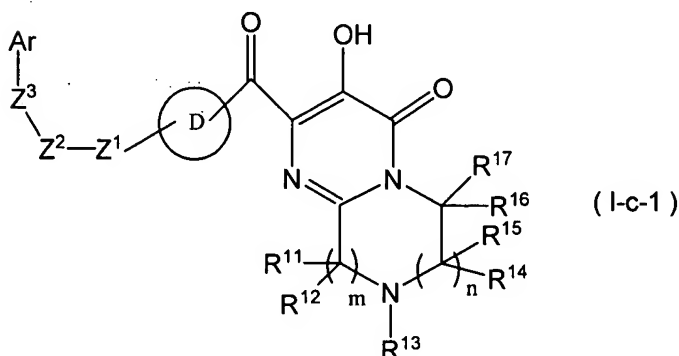
16. (Currently amended) The compound according to claim 11 or 12, wherein m is 1, n is 0 or 1; R¹¹ and R¹² each is independently hydrogen or lower alkyl; R¹⁴ and R¹⁵ both are hydrogens, or together form “=O”; and R¹⁶ and R¹⁷ each is independently hydrogen or lower alkyl, a pharmaceutically acceptable salt or a solvate thereof.

17. (Original) The compound according to claim 1 represented by the formula:
[Formula 11]



(wherein each symbol is the same meanings as claim 1)
, a pharmaceutically acceptable salt or a solvate thereof.

18. (Original) The compound according to claim 1 represented by the formula:
[Formula 12]



(wherein each symbol is the same meanings as claim 1), a pharmaceutically acceptable salt or a solvate thereof.

19. (Currently amended) The compound according to claim 17-~~or~~ 18, wherein D ring is furan, a pharmaceutically acceptable salt or a solvate thereof.

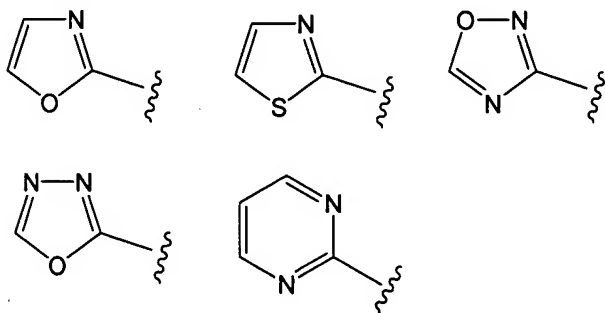
20. (Currently amended) ~~The~~ A pharmaceutical composition comprising a compound according to ~~any one of claims 1 to 19~~ claim 1, a pharmaceutically acceptable salt or a solvate thereof, and a pharmaceutically acceptable carrier or diluent.

21. (Original) The pharmaceutical composition according to claim 20 which is an antiviral agent.

22. (Original) The pharmaceutical composition according to claim 20 which is an HIV integrase inhibitory agent.

23. (New) The compound according to claim 9, wherein C ring is selected from the group consisting of:

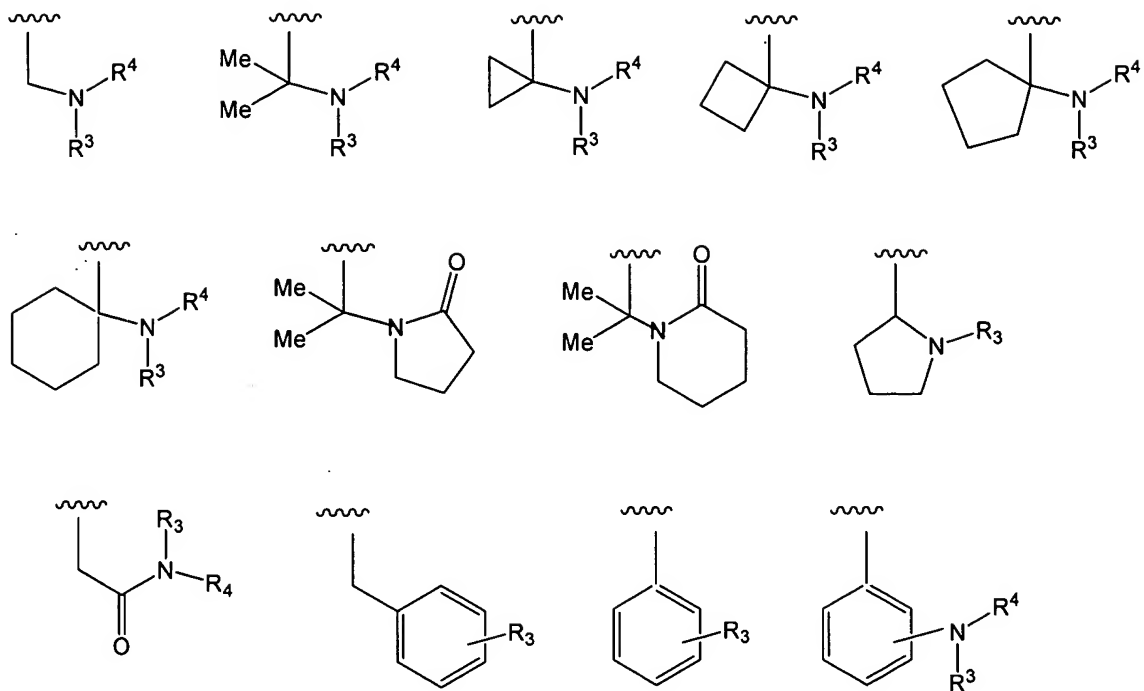
[Formula 7]



, a pharmaceutically acceptable salt or a solvate thereof.

24. (New) The compound according to claim 9, wherein R¹ is a group selected from the group consisting of:

[Formula 8]



(wherein, R^3 and R^4 are the same meanings as above)

, a pharmaceutically acceptable salt or a solvate thereof.

25. (New) The compound according to claim 12, wherein Z^1 is a single bond or O; Z^2 is a single bond or lower alkylene; Z^3 is a single bond; and Ar is optionally substituted phenyl, a pharmaceutically acceptable salt or a solvate thereof.

26. (New) The compound according to claim 12, wherein m is 1, and n is 0 or 1, a pharmaceutically acceptable salt or a solvate thereof.

27. (New) The compound according to claim 12, wherein R^{11} and R^{12} each is independently hydrogen or lower alkyl; R^{14} and R^{15} both are hydrogens, or together form " $=O$ "; and R^{16} and R^{17} each is independently hydrogen or lower alkyl, a pharmaceutically acceptable salt or a solvate thereof.

28. (New) The compound according to claim 12, wherein m is 1, n is 0 or 1; R^{11} and R^{12} each is independently hydrogen or lower alkyl; R^{14} and R^{15} both are hydrogens, or

together form “=O”; and R¹⁶ and R¹⁷ each is independently hydrogen or lower alkyl, a pharmaceutically acceptable salt or a solvate thereof.

29. (New) The compound according to claim 18, wherein D ring is furan, a pharmaceutically acceptable salt or a solvate thereof.